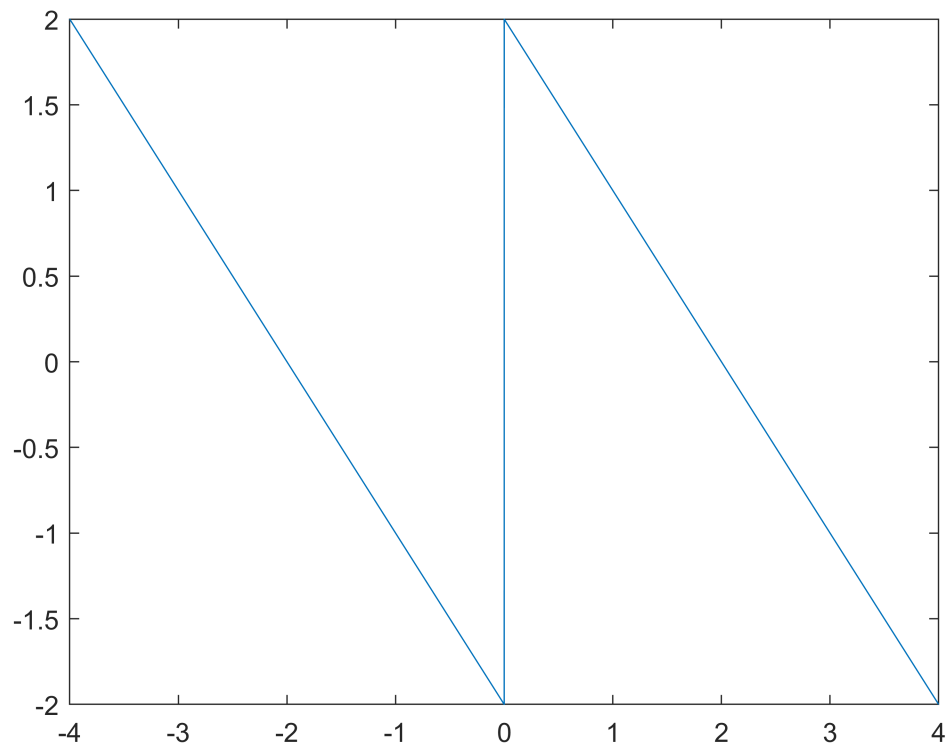


```

clc
clear variables;
%ex1
%a.
t=[-4,4];
n=-4:4;
x1=@(t) ((-2-t).*(t>=-4 & t<=0)+(2-t).*(t>0 & t<=4));
x2=@(t) ((t/2+1).*(t>=-4 & t<=0)+(-t/2+1).*(t>0 & t<=4));
fplot(x1,t);

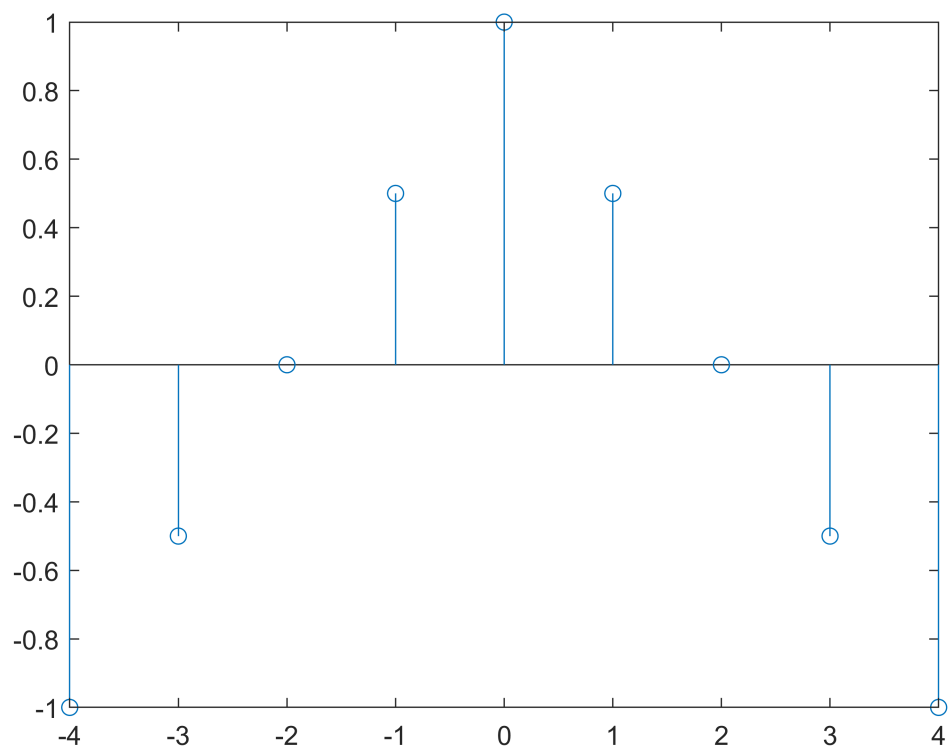
```



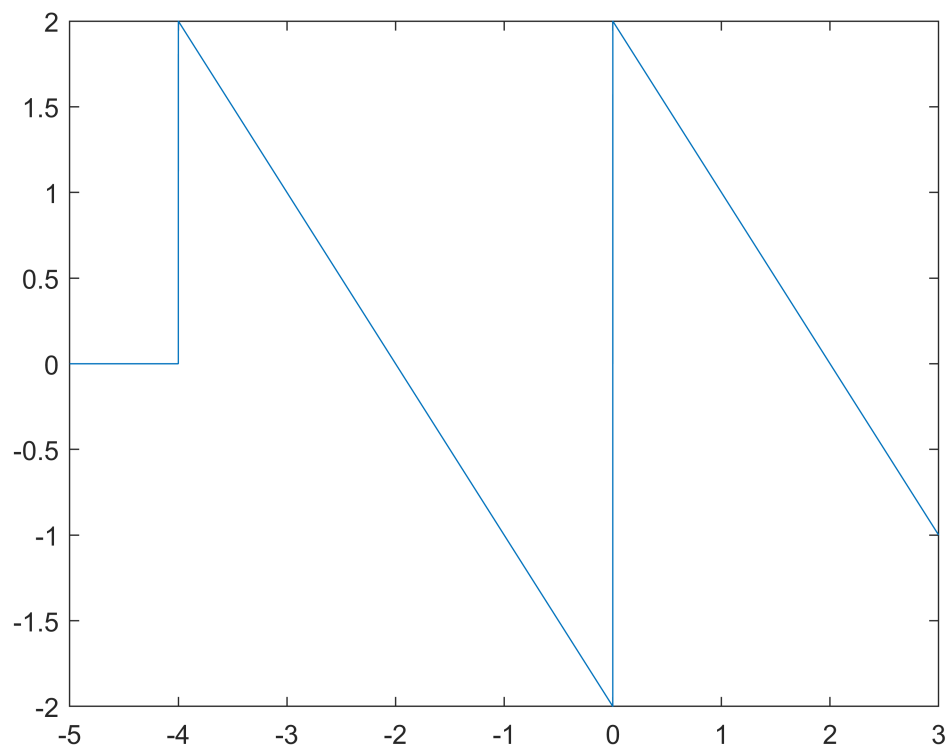
```

stem(n,x2(n));

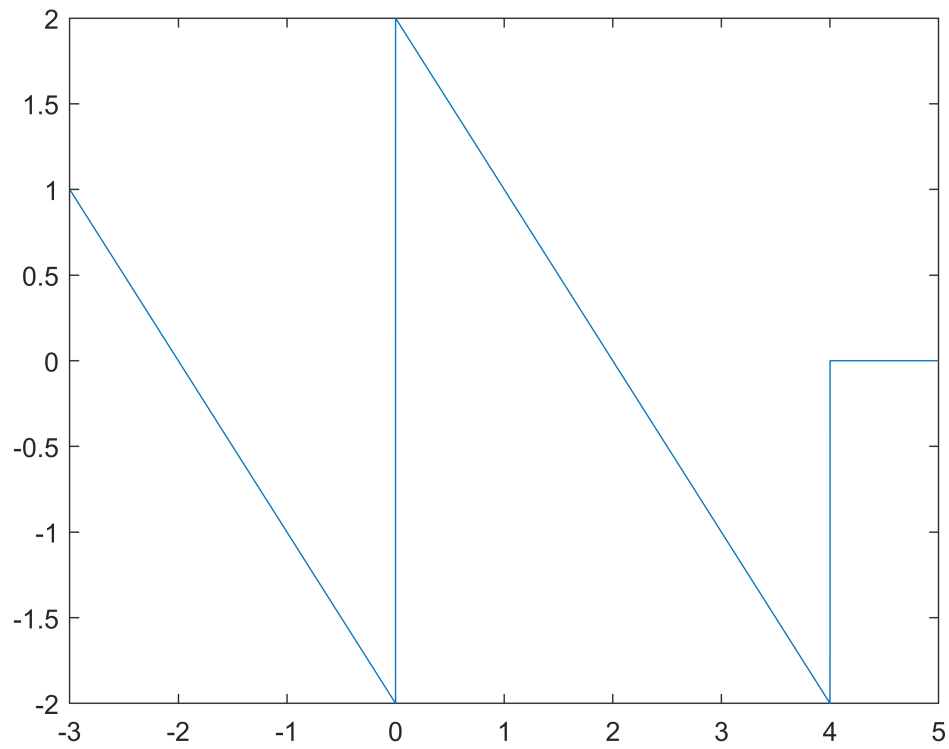
```



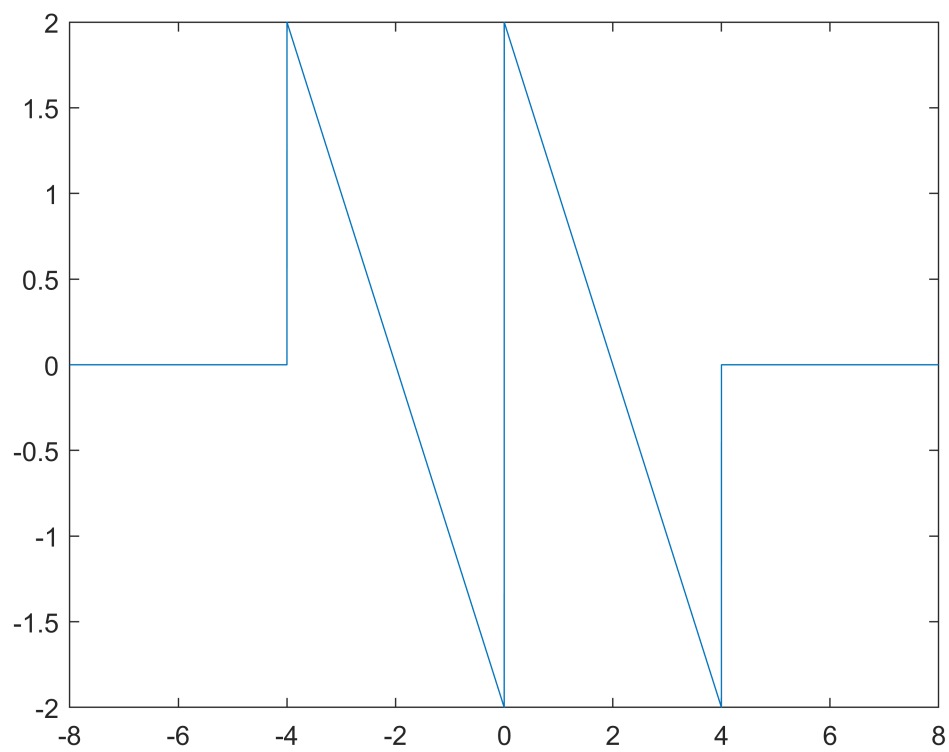
```
fplot(x1,t-1);
```



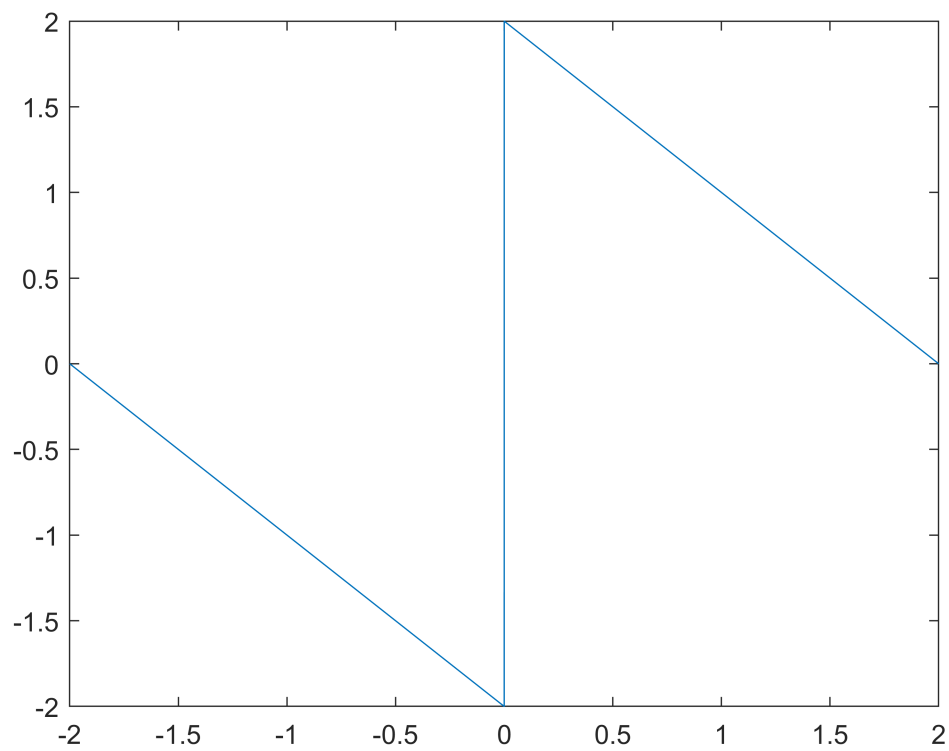
```
fplot(x1,t+1);
```



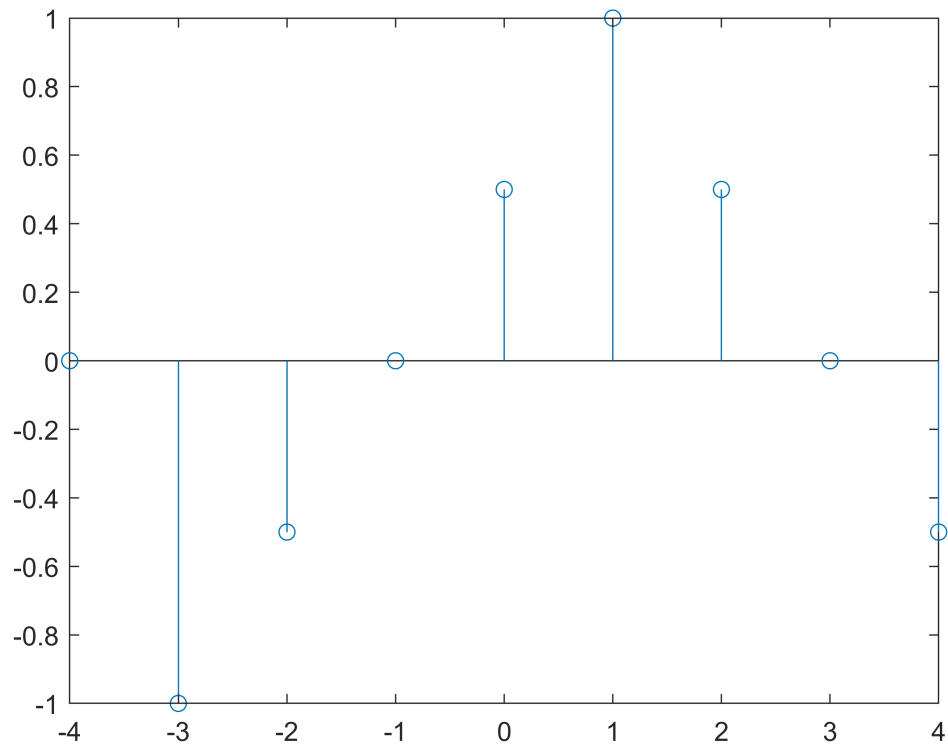
```
fplot(x1,2*t);
```



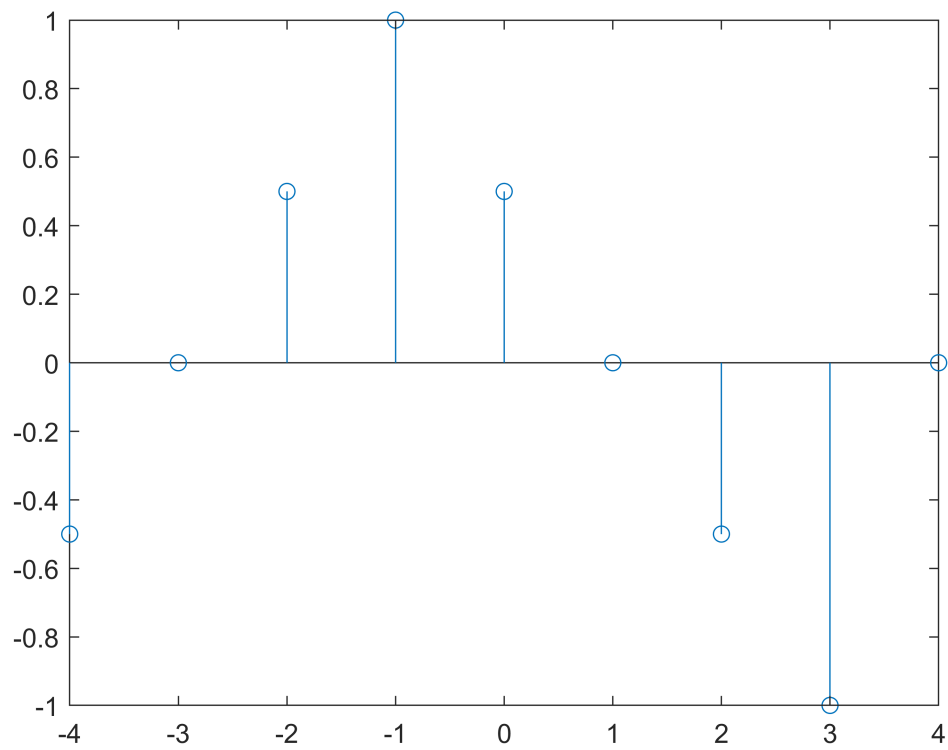
```
fplot(x1,t/2);
```



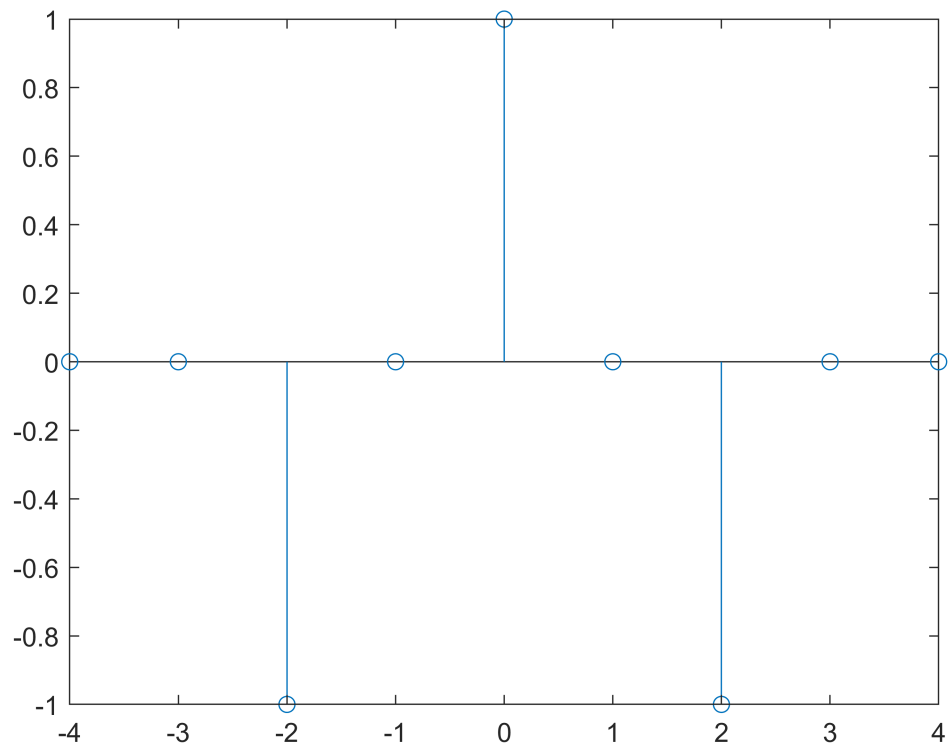
```
stem(n,x2(n-1));
```



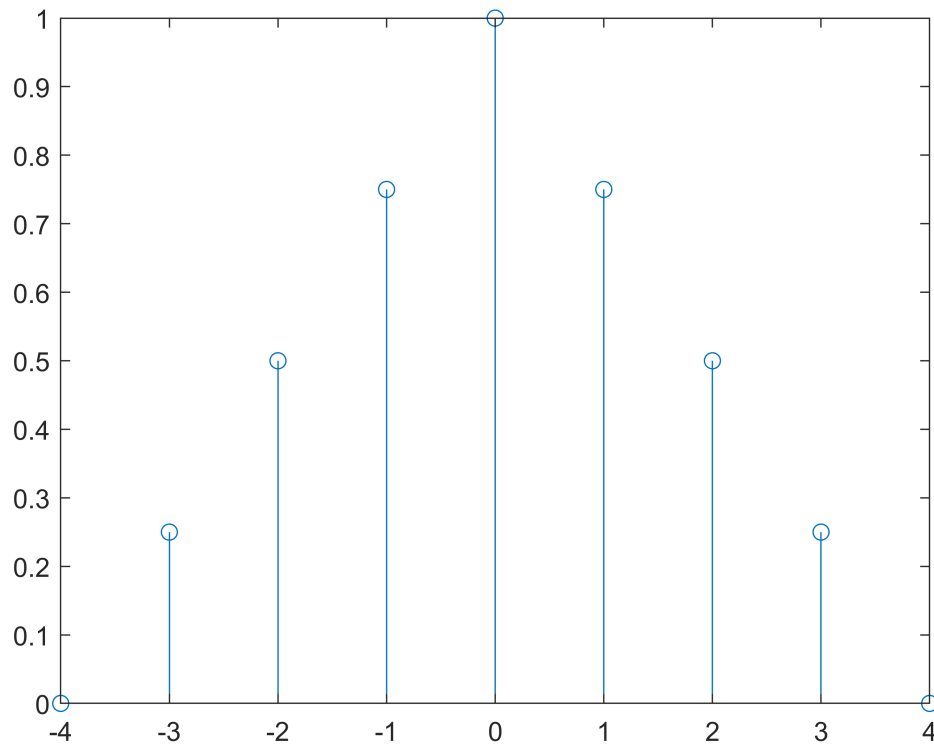
```
stem(n,x2(n+1));
```



```
stem(n,x2(n*2));
```



```
stem(n,x2(n/2));
```



```
%b.  
figure(1);  
subplot(5,1,1),fplot(x1,t);xlabel('t');ylabel('x1(t)');  
subplot(5,1,2),fplot(x1,t-1);xlabel('t');ylabel('x1(t-1)');  
subplot(5,1,3),fplot(x1,t+1);xlabel('t');ylabel('x1(t+1)');  
subplot(5,1,4),fplot(x1,t*2);xlabel('t');ylabel('x1(t*2)');  
subplot(5,1,5),fplot(x1,t/2);xlabel('t');ylabel('x1(t/2)');
```

